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Serial No. 09/998,635  
Amdt. dated December 18, 2003  
Reply to Office Action of October 1, 2003

Docket No. P-0300

RM  
1/19/04

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-10 (Cancelled)

11. (Previously Presented) An apparatus for controlling an operation of a motor, comprising:

a revolution section detect unit configured to calculate an operational frequency of the motor based on phase voltage and current values applied to the motor and configured to output a section detect signal by detecting an operational section of the motor in accordance with the calculated operational frequency;

a calculation unit configured to receive the phase voltage and current values in accordance with the section detect signal and configured to calculate a phase resistance value;

a speed/position calculation unit configured to calculate a rotor position of the motor by detecting the calculated phase resistance value and the phase voltage and current values and also configured to calculate a speed of the motor; and

a voltage command generator configured to generate a voltage command to and apply a voltage to the motor based on the rotor position and the speed of the motor.

12. (Original) The apparatus of claim 11, wherein the operational section is a middle section between forward and backward revolution sections of the motor.